

VELOCITY AND ACCELERATION

Follow the path of the car shown below.

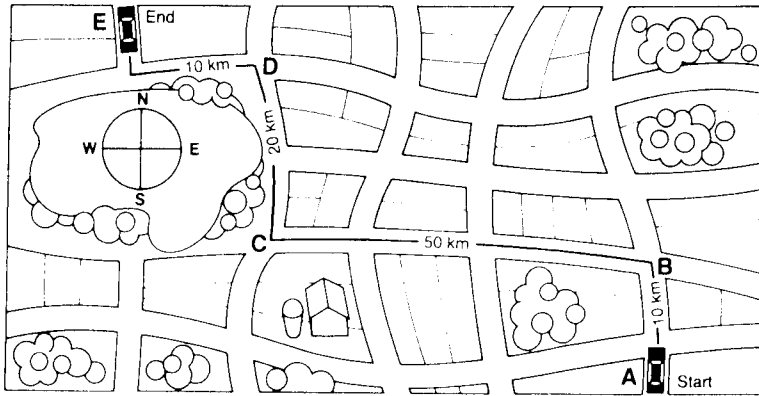


Figure 1.

WORK SPACE for problems

1. The car travels from B to C in 2.5 hours. What is the average velocity of the car during that part of the trip? 1.

2. The entire trip took 6 hours. What is the average velocity for the trip? 2.

3. The car started from a standstill and reached a speed of 100 m/s during the first 20 seconds of the trip. What is the average acceleration of the car over those 20 seconds? 3.

4. During the last 10 seconds of the trip the car slows down from a speed of 150 m/s to a stop. What is the deceleration of the car for those 10 seconds? 4.

5. What is the difference between speed and velocity?

